PA Breakout one

* to create geometric patterns and use them to support our own understanding of multiplicative thinking, generalizations and multiple representations.
* to begin discussing the idea of responding to students in the moment.

PA Breakout 2

* to explore different representations of patterns and discover that different representations bring about different mathematical concepts.
* to experience creating learning goals, success criteria and consolidating questions.

PA Breakout 3

* providing feedback to move towards the attainment of learning goals
* to continue to build an understanding of multiplicative thinking, generalizing and multiplicative thinking

PA Breakout 4

to investigate resources and instructional approaches to support students who struggle in patterning and algebra

* to deepen our understanding of multiplicative thinking, generalizations and multiple representations